Completing the Square and Sketching graphs

Please write the following in completed square form.

1      $x^2 + 12x - 36 =$
2      $x^2 + 18x - 43 =$
3      $x^2 - 2x + 5 =$
4      $x^2 + 6x - 12 =$
5      $x^2 - 10x - 8 =$

6      $x^2 + 13x - 23 =$
7      $x^2 + 9x - 43 =$
8      $x^2 - 11x + 5 =$
9      $x^2 + 5x - 12 =$
10     $x^2 - x - 8 =$

Sketch the graphs below. You need to be particularly careful of the roots, the turning points and the intercept.

1      $x^2 + 9x - 36 =$
2      $x^2 + 12x - 64 =$
3      $x^2 - 6x + 5 =$
4      $x^2 + x - 12 =$
5      $x^2 - 3x - 28 =$

Completing the Square and Sketching graphs

Please write the following in completed square form.

11     $x^2 + 12x - 36 =$
12     $x^2 + 18x - 43 =$
13     $x^2 - 2x + 5 =$
14     $x^2 + 6x - 12 =$
15     $x^2 - 10x - 8 =$

16     $x^2 + 13x - 23 =$
17     $x^2 + 9x - 43 =$
18     $x^2 - 11x + 5 =$
19     $x^2 + 5x - 12 =$
20     $x^2 - x - 8 =$

Sketch the graphs below. You need to be particularly careful of the roots, the turning points and the intercept.

6      $x^2 + 9x - 36 =$
7      $x^2 + 12x - 64 =$
8      $x^2 - 6x + 5 =$
9      $x^2 + x - 12 =$
10     $x^2 - 3x - 28 =$